ARBUZOV, M.T., kend.tekhn.nauk; GROMOV, V.L., kand.tekhn.nauk; GORSKIY,
B.Z., kand.tekhn.nauk; KALISHCHUK, A.L., kand.tekhn.nauk; KUNITSKIY,
L.P., kand.tekhn.nauk; KUHBATOV, D.I., kand.tekhn.nauk; MOROZOV, N.V.,
kand.tekhn.nauk; PILYUGIN, A.I., kand.tekhn.nauk; PRIMAK, M.S.,
kand.tekhn.nauk; SEMENTSOV, S.A., kand.tekhn.nauk; ULITSKIY, I.I.,
kand.tekhn.nauk; KHUTOHYANSKIY, M.S., kand.tekhn.nauk; SHERENTSIS,
A.A., kand.tekhn.nauk; PINSKIY, Ye.A., inzh.; KORSAK, Yu.Ye., red.;
MATUSEVICH, S.M., tekhn.red.

[Manual on civil engineering] Spravochnik po grazhdanskomu stroitel'stvu. Izd.4., ispr. Kiev. Gos.izd-vo tekhn.lit-ry. Vol.1.
1959. 867 p. Vol.2. 1959. 560 p. (MIRA 12:8)

(Civil engineering)

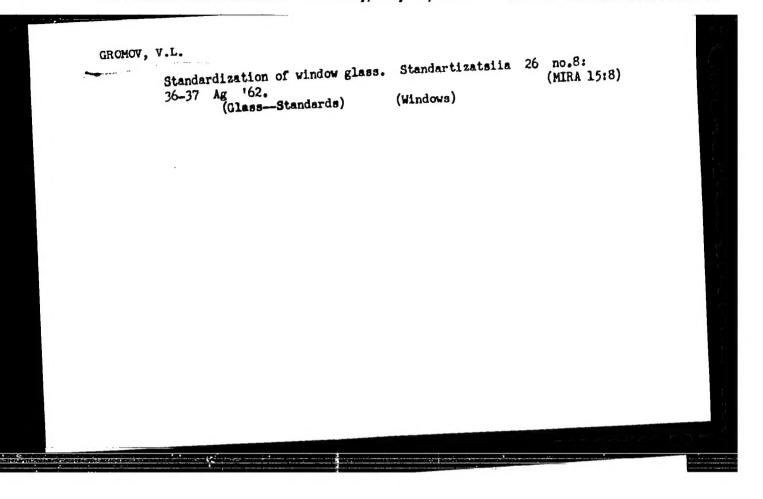
GROMOV, V., kand. tekhn. nauk

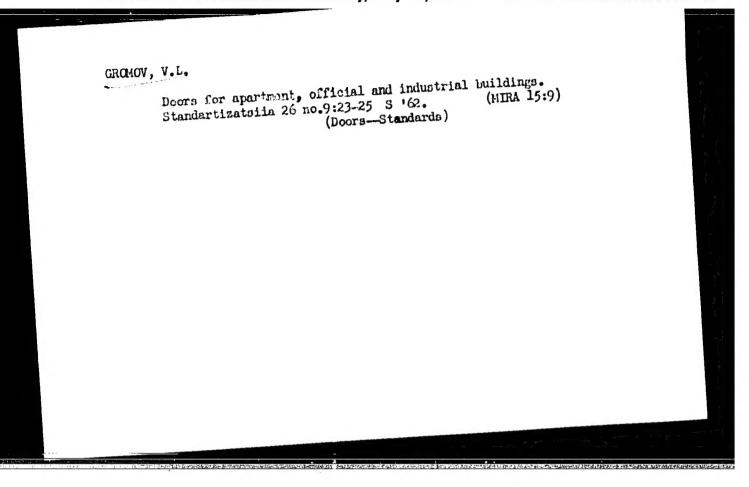
Windows with paired casements. Zhil. stroi. nc.1:15-18 '59.
Zhil. stroi. no.1:15-18 '59.

(Windows)

(Windows)

Windows for apartment and public buildings. Standartizatsiia GROMOV, V.L. (MIRA 15:7) 26 no.6:34-35 Je 162. (Windows--Standards)





LOSKUTOVA, L.T.; MAKOTINSKIY, M.P., kand. arkh.; RUDINA, M.A., arkh.; SHPANOV, I.A., arkh. Prinimal uchastiye LIVSHITS, A.M., inzh.; GROMOV, V.L., kand. tekhn. nauk, retsenzeng; KRASNOVSKIY, N.V., kand. tekhn. nauk, retsenzent; PAVLOV, V.P., kand. tekhn. nauk, retsenzent; PODZOROVA, N.G., inzh., retsenzent; FOLOMIN, A.I., doktor tekhn. nauk, retsenzent; GURVICH, E.A., red.

[Catalog of finishing materials and elements] Katalog otdelochnykh materialov i izdelii. Moskva, Gosstroiizdat. Pt. (Wood and paper) Derevo i bumaga. 1962. 56 p. (MIRA 16:8)

1. Vsesoguznyy nauchno-issledovatel'skiy institut novykh stroitel'nykh materialov.

(Finishes and finishing)

Mikolay Viktorovich, doktor tekhn. nauk; ARBUZOV, Nikolay Terent'yevich, kand. tekhn. nauk; GRCKOV, Vasiliy Lukich kand. tekhn. nauk [deceased]; KALISHUK, Aleksandr Luk'yanovich, kand. tekhn. nauk; KURBATOV, Dmitriy Ivanovich, kand. tekhn. nauk; PILYUGIN, Mikhail Semenovich, kand. tekhn. nauk; KHUTORYANSKIY, Aleksandr Abramovich, kand. tekhn. nauk; SHERENTSIS, Aleksandr Abramovich, kand. tekhn. nauk; LAVRIK, Gennadiy Ivanovich, arkh. MADEMA, Georgiy Il'ich, inzh.; PINSKIY Ye'im Aronovich, inzh.; SHKIYAR, Aleksandr Samoylovich, inzh.; BERGER, K.V., red.; VISHNEVYY, V.V., red.; ISHCHENKO, N.S., red.

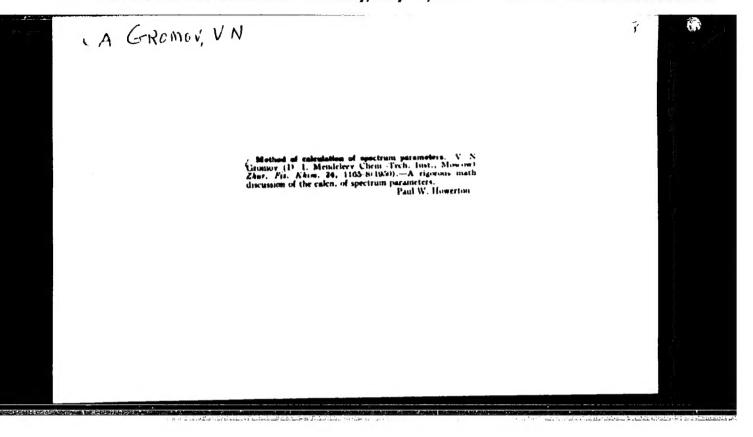
[Manual on civil engineering] Spravochnik po grazhdanskomu stroitel'stvu. Izd.5., perer. i dop. Kiev, Fudivel'nyk, 1965. 2 v. (MINA 18:2)

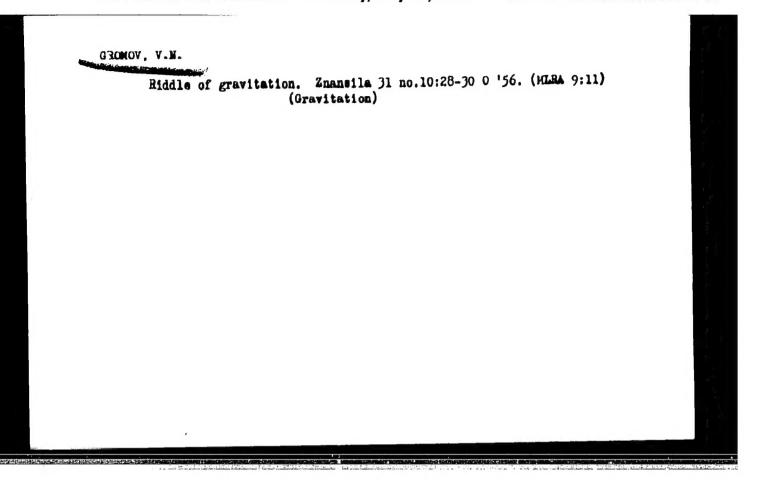
EFROS, I.Ye., inzh.~podpolkovnik; GROMOV, V.M., mayor, red.; STREL'NIKOVA, M.A., tekhn.red.

[Basic structure of bombsights] Osnovy ustroistva pritselov dlia bombometaniia. Izd.2., perer. Moskva, Voen.izd-vo M-va Vooruzhennykh sil SSSR, 1947. 318 p. (MIRA 13:2) (Bombsights)

## "APPROVED FOR RELEASE: Thursday, July 27, 2000

#### CIA-RDP86-00513R00051702



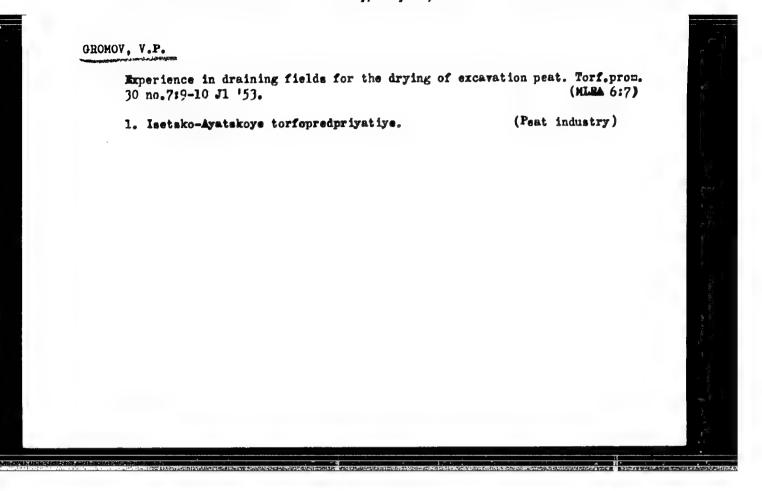


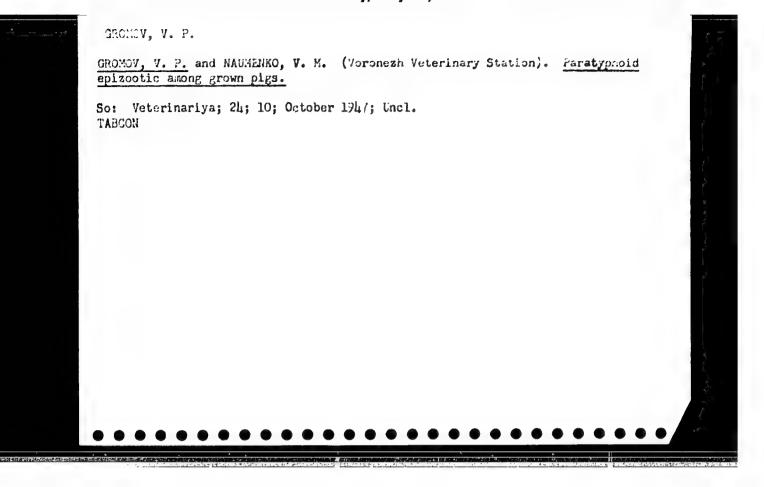
BALANDIN, A.A., akad., red.; KOBOZEV, N.I., prof., red.; LEBEDEV, V.P., dots., zam. red.; MAL'TSEV, A.N., dots., zam. red.; AGRONOMOV, A.Ye., dots., zam. red.; GROMOV, V.N., red.; LAZAREVA, L.V., tekhn. red.

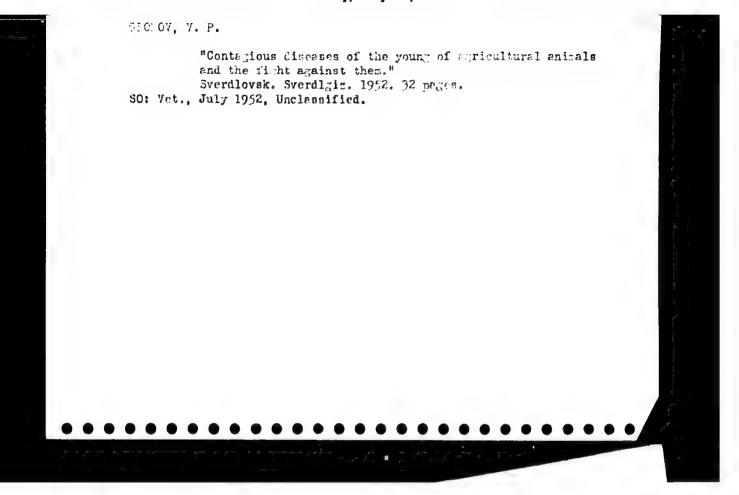
[Transactions of the First Interuniversity Conference on Catalysis] Trudy Meshvuzovskogo soveshchaniia po katalisu,lst. Moskva, Izd-vo Mosk. univ. No.1. Pt.1. 1962. 475 p. (MIRA 16:7)

1. Mezhvuzovskoye soveshchaniye po katalisu. 1st. 2. Khimicheskii fakul'tet Moskovskogo gosudarstvennogo universiteta (for Balandin, Kobozev, Lebedev).

(Catalysis—Congresses)







r. -2

USSR/Diseason of Farm Animals - Diseason Caused by Ructoria

: Rof Zhur - Biol., No 11, 1958, 50171

Abs Jour

Gromov, V.P., Frunkina, Kh.B.

Author

Inst

: Sverdlovsk Farm Institute.

: Antivirus Therapy of Bovine Brucellosis.

Title

: Tr. Sverdl. s.-kh. in-ta, 1957, 1, 311-315.

Oric Pub

Experimental antivirus (AV) therapy was undertaken on 24

Abstract

cows afflicted with brucellosis. AV was prepared from 3 brucelli strains according to the generally accepted method. The following doses were administered to the cows: for the first injection, 15 ml; then, 15 days later it was followed by a dosts of 50 ml, and 30 days after the was rollowed by a wars of your, and you mays after and second injection the same dosis was repeated, followed by 50 ml again 30 days after the third injection.

card 1/2

- 12 -

CIA-RDP86-00513R00

USSR/Diseases of Farm Animals. Diseases Caused by Bacteria and Fungi.

R-1

Abs Jour : Ref Zhur-Biol., No 18, 1958, 83547

: Gromov, V. P.; Khokhlachev, V. K. Author Institute: Sverdlovsk Institute of Agriculture : Vaccine Therapy in Brucellosis of Swine

Orig Pub : Tr. Sverdl. s.-kh. in-ta, 1957, 1, 317-320

Semiliquid formolyaccine was used for treating bruc-Abstract : ellosis. On the first day of treatment of this vaccine was injected in a 1 ml dose, on the 3rd day in a 3 ml dose, and on the 6th day in a 5 ml dose. After 70 days the treatment was repeated. The vaccinations resulted in body temperature increases in the sick animals, and they also caused loss of appetite and depression. Vaccine therapy affected the treated animals favorably. Bacteriological, serological, and biological

findings were negative.

Card 1/1

R-1

USSR/Diseases of Farm Animals. Diseases Caused by Bacteria and Fungi.

Abs Jour : Ref Zhur-Biol., No 18, 1958, 83515

: Gromov, V. P., Zhukova, Ye. N., Vetluzhskikh, P.A Author

: Sverdlovsk Institute of Agriculture

Inst : The Effectiveness of Vaccine Therapy in Bovine Title

Brucellosis.

Orig Pub : Tr. Sverdlovsk. s.-kh. in-ta, 1957, 1, 321-326

Abstract : Formolyaccines and heat-killed vaccines were prepared from virulent strains of all three brucella types to be used in vaccine therapy. ice and rabbits infected by brucella cultures were subjected to formolyaccine treatment. Bacteriological examinations of perished and killed mice and rabbits did not reveal brucella discharges. Apart from this, a sharply increased agglutination titer was detected in rabbits. Brucellosis afflicted cows were treated with intranuscular injections of formolyaccine

Card 1/3

#### "APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00051702

R-1

USSR/Diseases of Farm Animals. Diseases Caused by Bacteria and Fungi.

Abs Jour : Ref Zhur-Diol., No 18, 1958, 83515

and of heat-killed vaccine in the following manner; Abstract : 2 billions of microbic organisms were used for the first injection, 2 billions (3 days thereafter) after again for the second injection, & billions (5 days thereafter) for the third injection, 5 billions again for the fourth injection (20 d :s thereafter), 7 billions for the fifth injection (10 days thereafter), 7 billions again for the sixth injection (14 days thereafter), and 10 billions for the seventh injection (20-25 days thereafter). After 1-2 days, a general rise of body temperature was observed in the majority of the vaccinated snimals. Also, loss of appetite and a decrease of milk yields were established, as well as swelling of the injection site. Already after the first few

Card 2/2

9

#### "APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00051702

USSR/Diseases of Farm Animals. Diseases Caused by Pacteria and Fungil

R-1

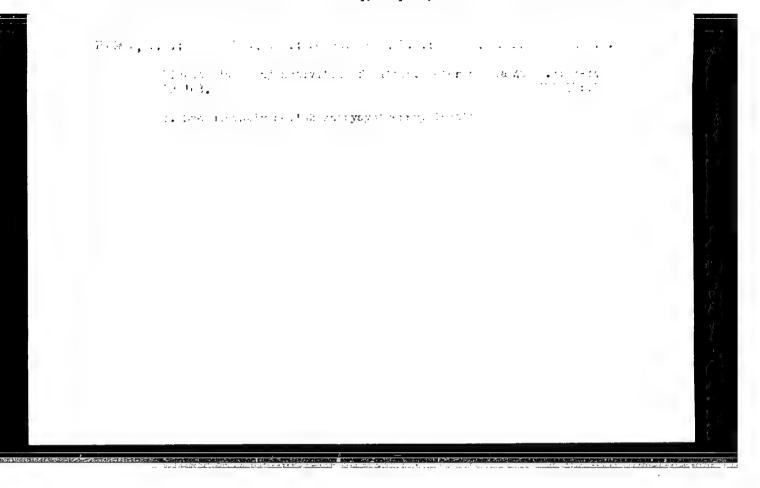
Abs Jour : Ref Zhur-Biol., No 18, 1958, 83515

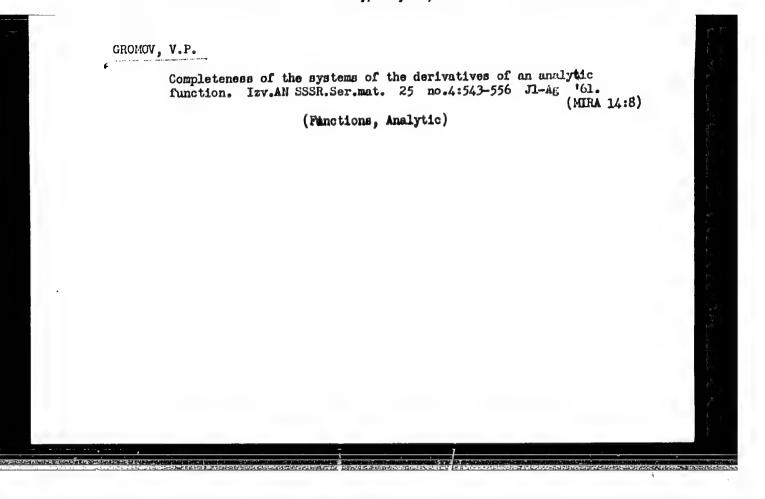
Abstract : injections agglutinin titers rose and remained at a high level (1:800, 1:1600, 1:5000) for a long period of time. Eleven to 13 months after the treatment, a decrease to 1:50 and 1:25 followed or became even negative. The phagocytal index increased in the diseased animals during the vaccination period. Sefore treatment opsonophagocytal reactions were negative or slightly positive. A specific vaccine therapy carried out on 2 farms, prevented recurrences of abortions and resulted in a decrease of barreness. Also, inflammatory processes of the animals! sex organs ceased .-I. is. Panchenko

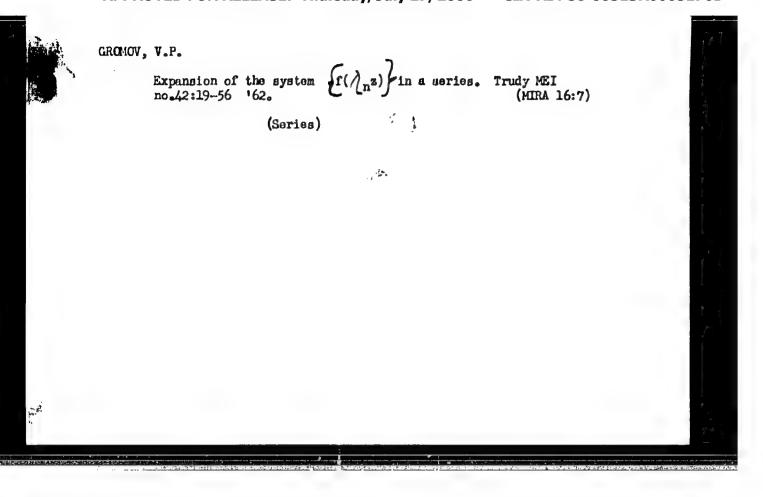
Card 3/3

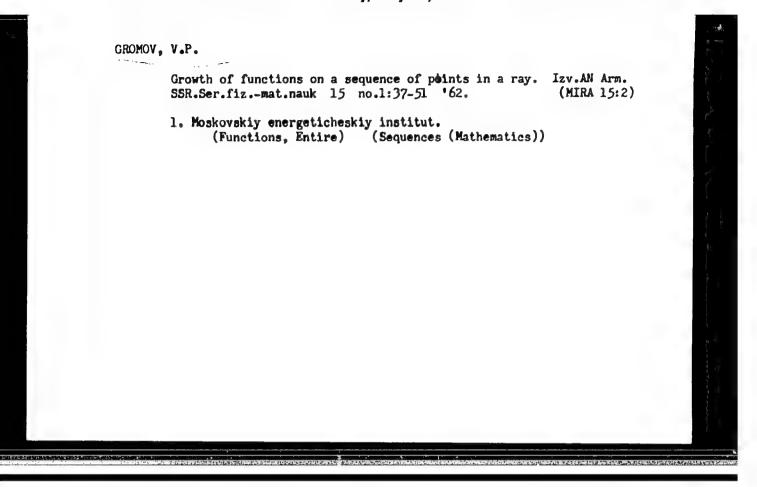
GROMOV, V. P.

Doc Vet Sci - (diss) "Materials for vaccinoprophylaxis and vaccinotherapy in brucellosis of horned cattle." Kazan', 1961. 19 pp; (Ministry of Agriculture USSR, Kazan' Veterinary Inst); 180 copies; price not given; (KL, 10-61 sup, 223)









Series of \f(\hat{n}z\) functions. Dokl.AN SSSR 144, no.1:23-26
My '62. (MIRA 15:5)

1. Moskovskiy energeticheskiy institut. Predstavleno akademikom
I.M.Vinogradovym.
(Series) (Functions, Entire)

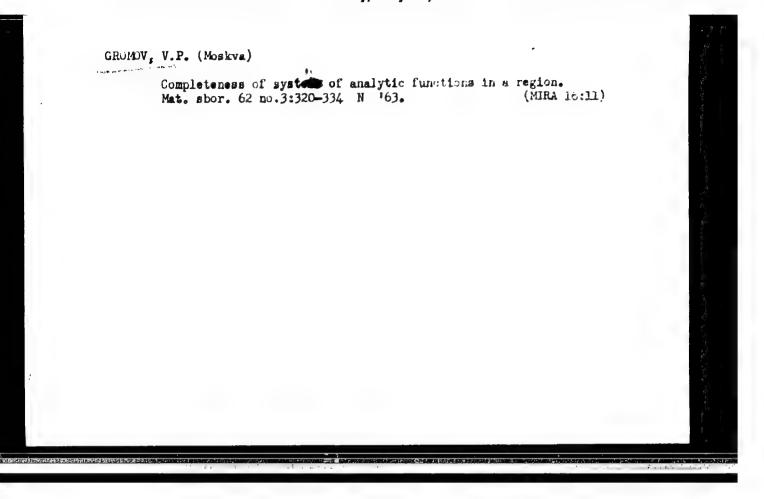
GROMOV, V. P.

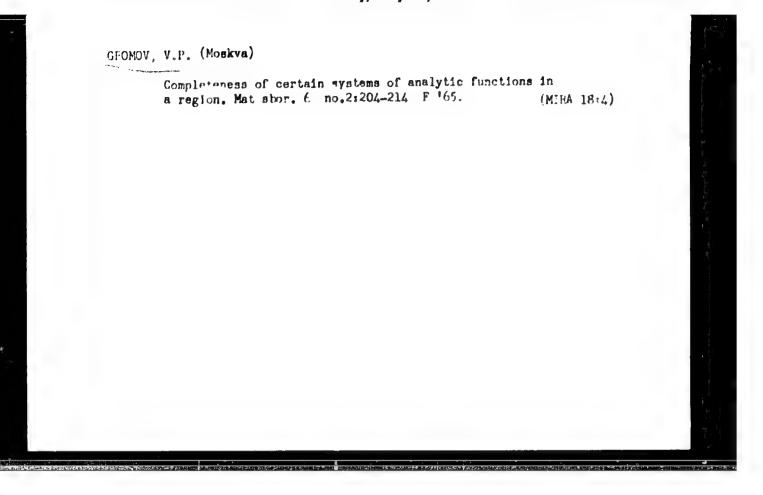
Dissertation defended for the degree of <u>Candidate of Physicomathematical</u>
<u>Sciences</u> at the Mathematical Institute imeni V. A. Steklova 1962:

"Functional Orders of the Dirichlet Series Type."

Vest. Aknd. Nauk SSSR. No. 4, Moscov, 1963, pages 119-145

The \( \int\_{n=1}^{\infty} \dot{d\_n f} \) (\( \int\_{n} z \)) series. Mat. sbor. 61 no.3:272-290 Jl '63. (MIRA 16:7)





## "APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00051702

GROWN, No. (Moskva)

Growth of functions defined by series of the type of dni (\lambda\_n z).

Mat. sbor. 67 no.2:190-209 Je 465.

(MIRA 18:8)

Burding, V.I.; ROXIOV, C.U.; GROE V, V.P.

Method of programmed succenting for crystal movement in refining structural presenters using an electric digital computer. Shur. structs. ktus. 6 no.1:1/1-152 Ja-F 165.

(MIRA 18:12)

1. Vychislitel\*nyy beautr Sindrakogo otdeleniya AN SSSR, Novosibirak. Submitted June 26, 1963.

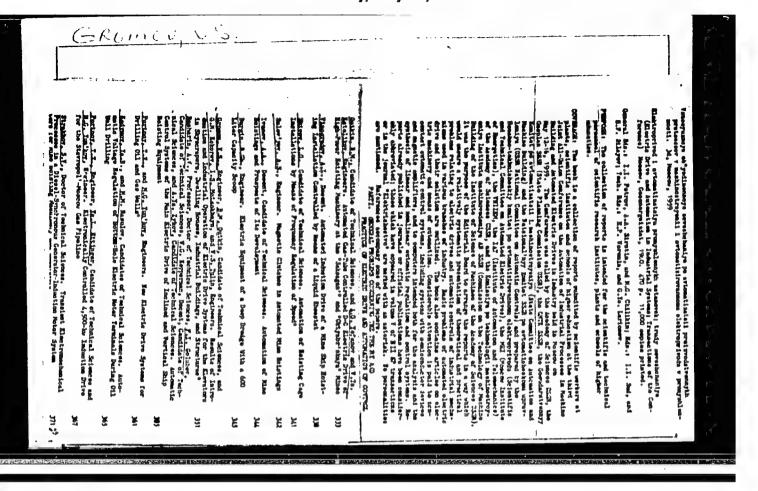
L 23207-66 EWT(d)/EWP(1) IJF(c)	10.0
ACC NR: AP6013588 SOURCE CODE: UR/0039/65/	066/002/0204/0214
AUTHOR: Gromov, V. P. (Moscow)	20
ORG: none	R
TITIE: Completeness of certain systems of analytic functions in a	region
SOURCE: Matematicheskiy sbornik, v. 66, no2, 1965, 204-214	
TOPIC TAGS: analytic function, mathematics	
ABSTRACT: /Section 1 of the srticle indicates the necessary and substracts for the completeness of the lacunary system $\left\{ \left( \overline{D}^{p} \nu F(z) \right)^{-1} \right\} (0 \le q_{\nu} \le s - 1, n_{\nu} = p_{\nu} s + q_{\nu}, \nu = 1, 2$	
regular in region D. It is shown that the system $\left\{ \sqrt{D^{p}} F(z) \right\} (0 \le q \le s - 1, p = 0, 1, 2,) \text{ is complete or } $	incomplete
simultaneously with the system of derivatives $\{F^{(n)}(z)\}$ $\{n=0, 1\}$ Section 2 shows that a certain connection exists between the region pleteness of the systems	1, 2,).
Cord 1/2 UDC: 51	7.53

SUB CODE: 12 / SUBM DATE: 10Sep63 / ORIG REF: 010	regions of completer	Particular cases are considness of the systems $\int e^{\lambda}$ ; z	$n = 0, 1,$ (here $D^0F = F$ , ered as to the connection of the and $\left\{F^{(n)}(z)\right\}$ . Originart	
	uss violuntes.	Tourist .		
				disease to the second s

SHESTOPEROV, S.V., doktor tekhnicheskikh nauk; BOGIN, N.M., kandidat tekhnicheskikh nauk; IVANOV, G.S., inzhener; LUKICHEV, N.A., inzhener; DAVIDOV, L.S., inzhener; GROMOV, V.S., inzhener; POPOV, N.A., inzhener; ZHURAVLEV, G.M., master.

Vibraters for making wire reinforced ties on stands. Transp.stroi. 6 ne.3:12-14 Mr \*56. (MIRA 9:7)

(Railreads--Ties, Concrete)

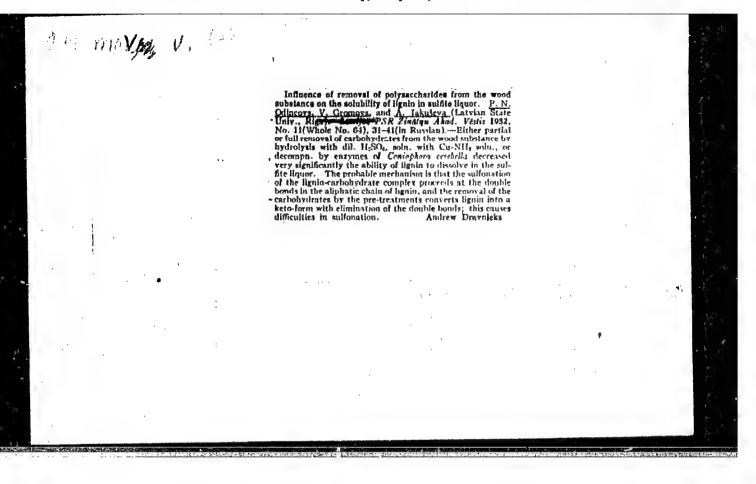


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### "APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00051702



TSIRULIS, F.Ya., inzhener: GROMOVA V.Sa. inzhener.

Utilization of dolomite and dolomitized limestones in acid towers.

Bum.prom. 3o no.1:23-24 Ja \*55. (MLRA 8:3)

1. Tsellyulozno-bumazhnyy kombinat "Sloka".

(Paper industry) (Bolomite)

GFDMOV, V. S., Master Chem Sci -- (diss) "Investigating the process of hydrotropic neating of deciduous wood and straw in cellulose making." Pige, 1957, 30 pp. Acad Sci Laty SSR. inst of Lumber), 200 copies. (A., No. 40, 1957, 90)

H - 33

Exellect 1

COMMUNIST CHINA/Chemical Technology - Chemical Products and

Their Application, Fart 4. - Cellulose and Its

Derivatives, Faper.

Abs Jour : Ref Zhur- Khimiya, No 14, 1958, 48995

Author : V.S. Gromov, P.N. Odintsov

Inst : Title : Cellulose Pulping of Hardwood and Straw with Hydrotropic

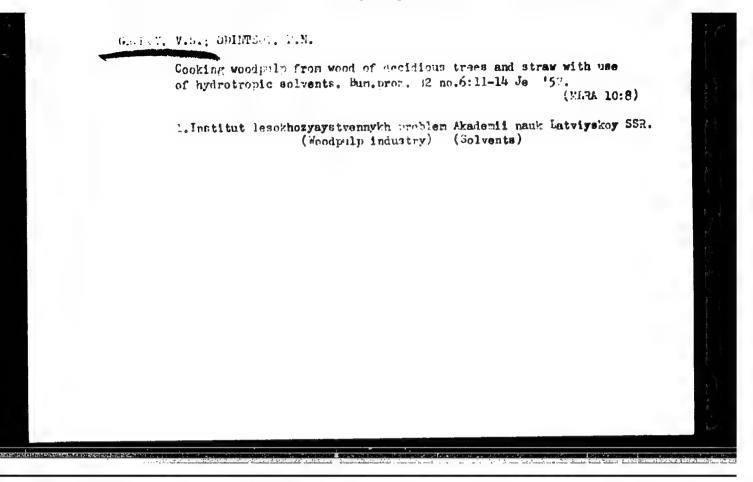
Solvents.

Orig Pub : Tszaochzhi gun-e, 1957, No 11, 22-24

Abstract : Translation.

See RZhKhim, 1958, 3277.

Card 1/1



GROMOV, V. (Riga); PORMALE, M. (Riga)

Hydrotropic and alkaline boiling of green wood for obtaining cellulose with simultaneous hydrogenation of lignin. Pt. 2. Fractionation of hydrogenated lignin products and separation of phenols. Vestis Latv ak no.4:85-92 '61. (EEAI 10:9)

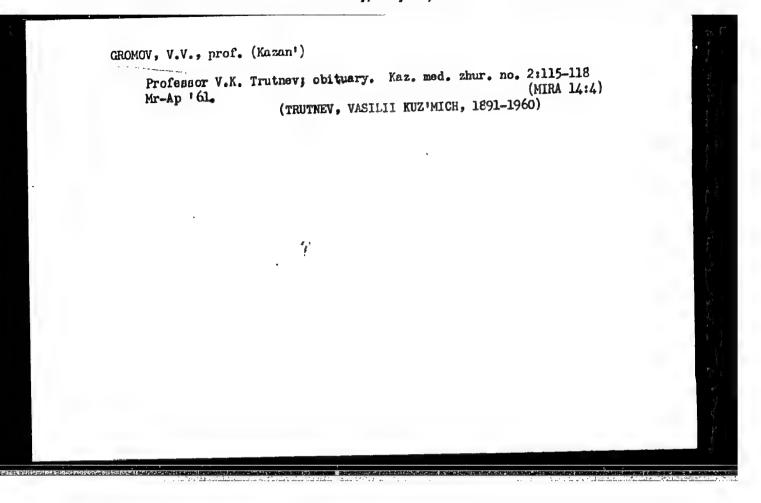
1. Akademiya nauk Latviyskoy SSR, Institut lesokhozyaystvennykh problem i khimii drevesiny.

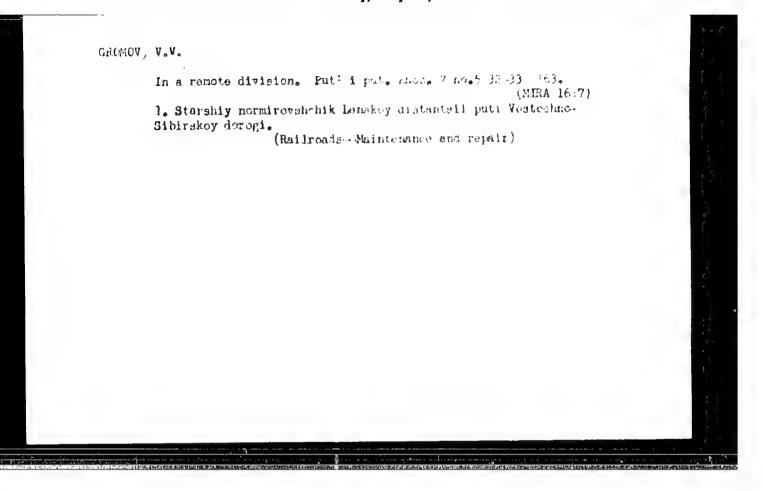
(Wood) (Lignin) (Hydrogenation) (Phenols) (Cellulose)

GROMOV, V.S., kand. khim. nauk, otv. red.; DOI BURG, G.E., kard. khim. nauk, red.; IYEVIK'SH, I.K.[Iovins, I.], kand. tekhn. nauk, red.; KAL'EINA, V.K.[Kalnina, V.], kand. tekhn. nauk, red.; RUPAYS, Ye.A.[Rupais, E.], kand. khim. nauk, red.; SERGEYEVA, V.N., doktor khim. nauk, red.; E-MUSH, N.A.[Ermus, N.], st. nauchn. sotr., red.; YUKNA, A.D.[Jukna, A.], kand. tekhn. nauk, red.; LEVI,S., red.; SHKLEHNIK, Ch., red.

[Chemical processing and preserving of wood] Khimicheskaia pererabotka i zashchita drevesiny. Riga, Izd-vo AN Latv.SSR, 1964. 238 p. (MIKA 18:1)

1. Latvijas Padomju Socialistiskis Republikas Zinatnu Akademija. 2. Institut khimii drevesiny AN Latviyskoy SSR (for Gromov, Sergeyeva, Ermush).

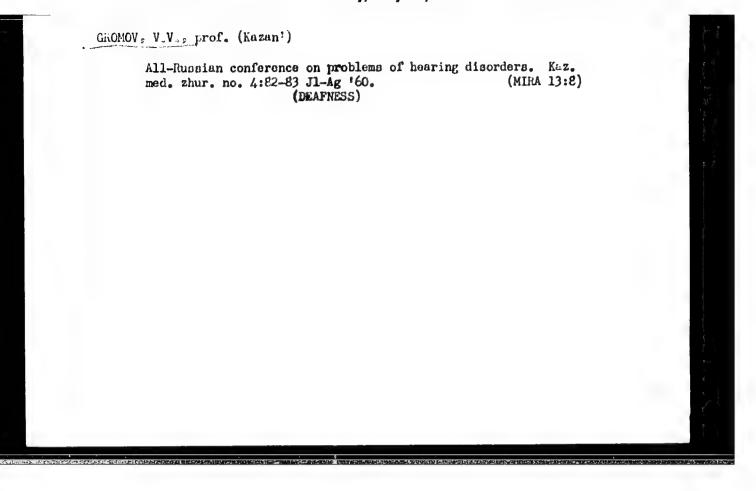




GROMOV, V.V., prof. (Kazan')

In memoriam: G.A. Zharkovskii. Kaz.mod. zhur. no.1:104 Ja-P '63.
(MIRA 16:8)
(ZHARKOV:KII, GRIGORII ARTUROVICH, 1969 - 1962)

Passage of discharges penstocks during the work construction through the turbine-unit at the Irkutsk Hydroelectric Power Station. Gidr. strol. 27 no.5:17-22 My '58. (MIRA 11:5) (Irkutsk Hydroelectric Power Station) (Penstocks)



AUTHORS:

Spitsyn, Vikt. I., Gromov, V. V.

507/89-5-4-6/24

TITLE:

Investigation of the Law of the Sorption of Radioactive Strontium on Montmorillonite and Its Fixation by the Method of Calcination (Izucheniye zakonomernostey sorbtsii radioaktivnogo strontsiya na montmorillonite i zakrepleniya yego

metodom prokalivaniya)

PERIODICAL:

Atomnaya energiya, 1958, Vol 5, Nr 4, pp 446-452 (USSR)

ABSTRACT:

The sequence of the various cations decreasing the absorption of Sr 89,90 in montmorillonite (from Oglanlinsk, Krym,

Kazakhstan) is as follows:

 ${\rm A1}^{+3} > {\rm Fe}^{+3}$ 

 $Ba^{+2} > Ca^{+2} > Mg^{+2} > H^+ > NH_4^+ > K^+ > Na^+$ It was stated that the sorption of  $Sr^{89,90}$  by montmorillenite has the character of ion interchange and obeys the law of mass action. The presence of anions such as  $CO_3^{-2}$ ,  $SO_4^{-2}$ ,  $C_2O_4^{-2}$ , which, with strontium, form a difficultly soluble salt, does not change the absorption mechanism. They do, however, decrease

2 Card

SOV/89-5-4-6/24

Investigation of the Law of the Sorption of Radioactive Strontium on Mont-morillonite and Its Fixation by the Method of Calcination

the amount of the absorbed strontium, which is probably due to the forming of radioactive colloids. Calcination at  $850-900^{\circ}$ C and extended duration of calcination over more than 1-2 hours does not exercise any influence upon the degree of fixation of  $Sr^{99,90}$  in montmorillonite. Activity, which can be washed out by river- or sea water, amounts to  $\sim\!2\%$ . It is assumed that already before the crystal lattice begins to change (T =  $800^{\circ}$ C) fixation is brought about by the formation of difficultly soluble strontium compounds with the absorber. Above  $800^{\circ}$ C the modification of the crystal lattice structure and the step-like vitrification of the material become effective. There are 7 figures, 1 table, and 19 references, 9 of which are Soviet.

SUBMITTED:

January 7, 1958

Car. 2

5(4) AUTHORS:

35" 20-123-4-42,53 Spitsyn, Vikt. I., Scalemician, Gromov, V. V.

TITLE:

The Influence of the Radioactivity of Barium Sulfate on Its Sorptive Properties (Viyaniye radioaktivno ti sul'fata

bariya na yego sorbisionnyye svoyatva)

PERIODICAL:

Doklady Akademii nauk SSSR, 1958, 701 123, Nr 4, pp 722-724

(ussr)

ABSTRACT:

The authors of the present report investigate the influence of radioactivity on the sorptive properties of solids. Barium sulfate, which had already previously been thoroughly investigated (Refs 6, 7, 8), was used as a sorbent. The present paper deals with the adsorption from aqueous solutions of acid orange dye (Orange AT2B (C16H11O4N2S)Na and of two

basic dyes methylene-blue  $(c_{16}H_{18}H_{3}S)cl$  and brilliant green  $(c_{27}H_{35}H_{2})cl$ , occurring on these sorbents.  $S^{55}$ , which was

introduced into the barium sulfate during its precipitation, served as a source of radioactive radiation. The production of the BaSO -preparations is described in short. 3 g of the

Card 1/4

SOV/20-12:-4-42/55
The Influence of the Radioactivity of Barium Sulfate on Its Sorptive Properties

precipitate to be investigated was shaken at a temperature of  $(25 \pm 0.5)^\circ$  for four hours with 15 ml of the coloring substance solution of the corresponding concentration. After this, the coloring substance content in the liquid phase was spectrophotometrically determined by means of the apparatus SF-4 and SF-2M. Measuring errors amounted to 3-4%. The results obtained by these investigations are shown by three diagrams. The acid orange dye is to the largest extent adsorbed by the BaSO<sub>4</sub>, viz. by one order of magnitude more than the other coloring agents. Methylene-blue is adsorbed somewhat more than brilliant green. The sorption of the two basic coloring substances diminishes with increasing specific radioactivity of the barium sulfate. Thus, the sorption capacity for methylene-blue at activities of 0.01 - 10 millicurie/g depends linearly on the logarithm of the specific activity of BaSO<sub>4</sub>. The authors also carried

Card 2/4

out special investigations for the purpose of solving the problem as to whether the decrease of the adsorption of the

307/20-125-4-42/53

The Influence of the Radioactivity of Barium Sulfate on Its Sorptive Properties

investigated basic coloring substances is only imagination, and whether it is not due to loss of color under the influence of radiation. Also these experiments are described in short. According to the results obtained the variation of the sorption of coloring substances is not due to destruction of these substances by the action of S35 radiation. Moreover, no visible chemical or radio-chemical changes could be observed in the liquid phase that might have exercised any influence upon the stability of coloring substances or upon the intensity of their sorption. According to the authors' opinion, the variation of the sorption of coloring substances observed may be connected with the occurrence of a positive charge on the precipitate of the radioactive barium sulfate (in consequence of the continuous  $\beta$ -radiation). There are 4 figures, 1 table, and 8 references, 3 of which are Soviet.

Card 3/4

507/20-123-4-42/53

The Influence of the Radioactivity of Burium Sulfate on Its Sorptive

Properties

ASSOCIATION: Institut fizicheskoy khimii Akademii naub SSSR

(Institute of Physical Chemistry of the Academy of Sciences,

ussr)

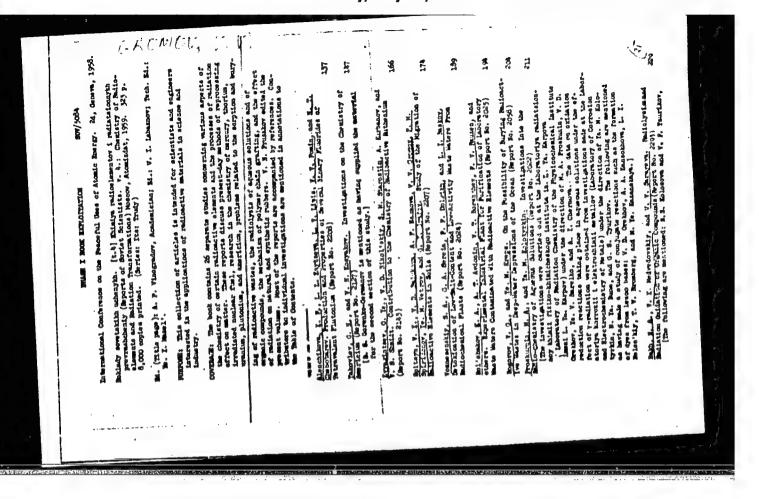
July 25, 1958 SUBMITTED:

Card 4/4

GROMOV, V. V.; ZAKHAROV, S. I.; ZHAGIN, B. P.; SPIRIDOV, F. M.; V. I. SPITSYN; AND BALUKOVA, V. D.;

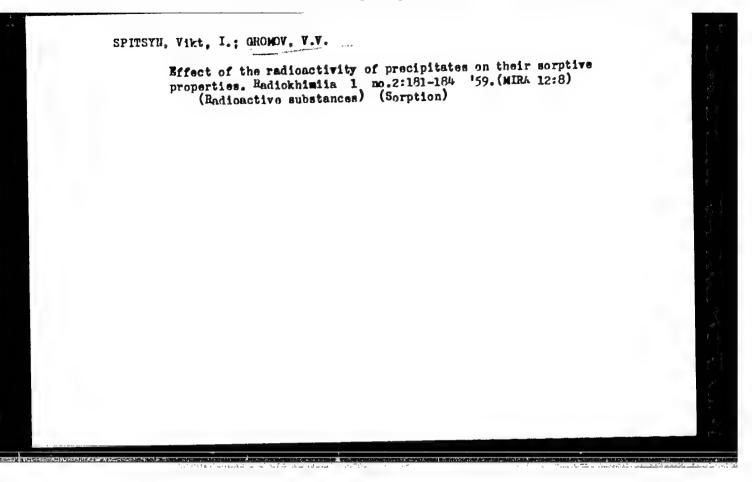
"Sorption regularities in Behavior of Fission Product eElements during Filtration of Their Solutions through Grounds."

report presented at the Scientific Conference on the Disposal of Radioactive Wastes, Monaco, 16-21 November 1959.



APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R000517020



SPITSYN, Vikt.I.; (ROMOV, V.V.

Adsorption of radiostrontium by certain soil minerals.
Pochwovedenie no.12:45-50 D '59. (MIRA 13:4)

1. Institut fizicheskoy khimii Akudemii nauk SSSR.

(Strontium--Isotopes) (Minerals in soil)

R: 319 s/076/60/034/06/33/040 BO15/B061

21.3200

AUTHOR:

Gromov, V. V. (Moscow)

TITLE:

Desorption of Microquantities of Strontium and Cesium

From Montmorillonite and Kaolinite

PERIODICAL:

Zhurnal fizicheskoy khimii, 1960, Vol. 34, No. 6,

pp. 1357-1363

TEXT: The desorption of Sr and Cs 137 from montmorillonite and kaolinite by NaCl and CaCl solutions (Table 1, composition) was investigated. Both isotopes were used in carrier-free 10<sup>-7</sup> - 10<sup>-9</sup> N chloride solutions. The montmorillonite clay was from the Oglanly, and the kaolinite from the Glukhovitsy deposit. The equation  $q_1 = K'$  and  $q_2 = K'$  and  $q_3 = K'$  and  $q_4 = K'$  and  $q_5 = K'$ ed ion quantity, K = constant) was derived from the equation (1) (Ref. ..., proposed by B. P. Nikol'skiy, and it corresponds to the desorption of microquantities of ions by ion exchange and a completely reversible adsorption of these ions. The constants of the equation (2), obtained in the tests, are given in Tables 1 and 2 and confirm the validity of the

Card 1/2

Description of Microquantities of Strontium and S/076/60/034/06/33/040 Cesium From Montmorillonite and Kaolinite B015/B061

derived equation. The descrption curves obtained (Figs. 1-3) show that the sorption of Sr<sup>90</sup> on montmorillonite and kaolinite is completely reversible, and that of Cs<sup>137</sup> is partially irreversible. Sr<sup>90</sup> is eluted better with calcium- than with sodium-ions, whilst Cs<sup>137</sup> is descrbed better with sodium ions. Both isotopes are descrbed more easily by kaolinite than by montmorillonite. Finally, Academician Viktor Ivanovich Spitsyn is thanked for hints. There are 8 figures, 3 tables, and 14 references: 8 Soviet and 6 American.

ASSOCIATION: Institut fizicheskoy khimii Akademii nauk SSSR (Institute for Physical Chemistry of the Academy of Sciences, USSR)

SUBMITTED: September 11, 1958

X

Card 2/2

BELYAKOVA, L.D.; GROMOV, V.V.; KISELEV, A.V.; SPITSYN, Vikt.I., akademik

Adsorption of hexame and benzene vapors on nonradioactive and radioactive barium sulfate samples. Dokl.AN SSSR 138 no.5;1139-1142 je '61.

(MIRA 14:6)

1. Institut fisicheskoy khimii AN SSSR i Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova.

(Barium sulfate) (Sulfur—Isotopes) (Adsorption)

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051702(

\$/020/61/119/005/000/021 B103/B208

5.4600

Spitsyn, Vikt. I., Academician Zemlyanova, L. I.

Mikhaylenko, I. Ye., Gromov, V. V., and Zimakov I. Ye.

TITLE:

AUTHORS :

Electron-microscopic examination of the effect of radioactive radiation of solids on the structure of their surface

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 159, no. 5 1961 1163-1165

TEXT: The crystal lattice of solids is disturbed by the ionizing action of their own radioactive radiation and the appearing recoil atoms, which also changes their surface structure. According to the authors, all this may be one of the causes of the effect exerted on physicochemical properties of solids by their own radiation (sorptive power, solubility in water, kinetics of heterogeneous processes of isotopic exchange catalysis, etc.). The authorsmale electron-microscopic studies of the surface structure of radioactive samples of  $K_2SO_4$ ,  $MgSO_4$ ,  $BaSO_4$ , and  $MoO_3$  which had been used previously to study adsorption, catalysis, and isotopic exchange. Except for BaSO, the pictures were obtained by Card 1/5

Electron-microscopic examination ...

\$/020,61/159,00°/020/02 B103/B208

replication, and for BaSO<sub>4</sub> the method of louble replicas (allyer points replicas) was used. K<sub>2</sub>SO<sub>4</sub>, MgSO<sub>4</sub>, and MoO<sub>3</sub> were applied to a religious film in the form of a fine powder. A 200 - 300 Å thick quarts layer was sputtered onto it in vacuo. After dissclution of collodion in amylacetate, the quartz replica were rinsed in distilled water in the case of K<sub>2</sub>SO<sub>4</sub> and MgSO<sub>4</sub>, and in dilute alcohol in the case of MrO<sub>3</sub>. Pair arrived samples of K and Mg were obtained by adding small amounts of N<sub>2</sub>SO<sub>4</sub> and taining S<sup>25</sup>. BaSO<sub>4</sub> precipitates were isolated by a method previously described by Vikt. I. Spitsyn, V. V. Gromev (DAN 123 722 (1915) Radiokhimiya 1, 181 (1959)). Radioactive MoO<sub>3</sub> was obtained by adding an MoO<sub>9</sub> containing sample to ordinary MoO<sub>3</sub> in order to attain the necessary specific radioactivity. The mixture was converted to ammonium molycdate by treating it with aqueous ammonia; it decomposed when neated. The resultant MoO<sub>3</sub> was sublimed at 850°C. When comparing the pictures (magnifications 12,000 times) [Atstracter's notes Not reproducible] the

Electron-microscopic examination...

\$/020/61/139/005/020/02 B103/B208

authors found the following differences in the crystal surface of a) radioactive and b) non-radioactive samples: 1) The surface of the comparatively smooth, that of a) highly pitted. The crystal surface of BaSO is changed to a high extent by incorporation of small radium amounts.  $K_2SO_4$ , BaSO $_4$ , and MoO $_5$  also show some changes in their surface structure after an external irradiation with 800-kev electrons. Although the dose was much higher in this case, the changes were less princunced than those caused by radioactive radiation. The above surface defects appear rather regularly over the whole length of the crystal of the radioactive substance. The deep cavities observed in samples irradiated with neutrons were absent The surface changes resemble those observed in metal etched by an ion beam. The authors further conclude from the com parison of the photographs that the surface defects of the railmantive samples develop already during the separation of the solid phase from the solution or from the gas. They assume that the radiation of electrons in other charged particles during the crystallization of solid substances gives rise to a great number of new active centers (seed crystals particle-size distribution on separation of radioactive salts from

Card 3/5

27255

Electron-microscopic examination ...

\$/020/61/139/005/020/03 B103/B208

solutions differs from a non-radioactive preparation. The content of smaller fractions considerably increases. The authors assume that additional crystallization centers are formed directly on the surface of the radioactive salts owing to radiation. The larger crystals thus in one pose, and the surface becomes looser. A dendritic structure results in some cases (after separation of MoO, from the gaseous phase). The further development of the surface of solids under the action of prolonged radio active radiation reminds of the radiation corrosion rather than of the growth of irradiated crystals, as is the case in neutron tombariment The adsorption of the radioactive samples is changed in the following way: Radioactive samples adsorb far more vapor of methanol, benzene, and hexane per unit surface of BaSO4 precipitate than do non-radioactive samples. This is considered to prove essential differences in the surface structure between these two types of samples. There are 'figure, 'tables, and 16 references: 15 Soviet-bloc and 1 non-Soviet bloc. The reference to English-language publications reads as follows: Ref. 13. H. Newkirk, J. Nucl. Materials. 2, 269 (1960).

Card 4/5

Electron-microscopic examination

\$/020/61/139/005/020/021 B103/B208

ASSOCIATION: Institut fizicheskoy khimii Akademii nauk SSSR (Institute of Physical Chemistry of the Academy of Sciences USSR)

SUBMITTED: April 15, 196:

Card 5/5

GROMOV, V.V.; SPITSYN, Vikt. I., akademik

Effect of external irradiation on the sorption properties of Ba SO<sub>4</sub>. Dokl. AN SSSR 141 no.4:891-893 D '61. (MIRA 14:11)

1. Institut fizicheskoy khimii AN SSSR.

(Solids, Effect of radiation on)

(Barium sulfate)

(Sorption)

GROHOV, V.V.

Tendipedid larvae (Diptera) in the water of the Sylva Bay of Kama Reservoir. Biul. Inst. biol. vodokhran. no.12:38-41 162. (MIKA 16:3)

1. Permskiy gosudarstvennyy universitet.
(Kama Reservoir—Chironomidae)

BELYAKOVA, L.D.; GROMOV, V.V.; KISELEV, A.V.; SPITSYN, Vikt.I.

Adsorption of various substances on radioactive samples of barium sulfate. Radiokhimia 4 no.4:410-421 '62.

(MIRA 15:11)

(Barium sulfate) (Sulfur--Isotopes)

(Adsorption)

SPITSYN, Wikt.I., akademik; GROMOV, V.V.

Effect of the radioactive radiation of the solid phase on the kinetics of potassium sulfate recrystallization. Bokl. AN SSSR 147 no.3:663-666 N 162. (MIRA 15:12)

1. Institut fisicheskoy khimii AN SSSR.
(Potassium sulfate) (Crystallization) (Radiation)

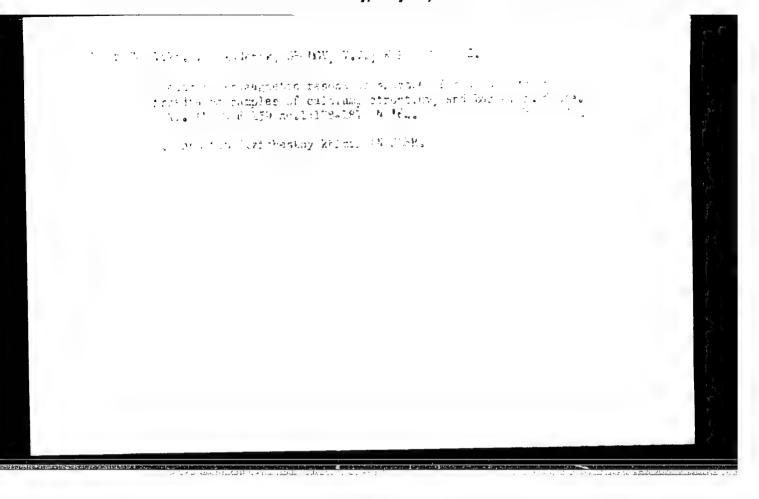
	Structure of radioactive deposits. Dokl.AN SSSR 149 no.3:626-628 Mr *63. (MIRA 16:4)
	1. Institut fizicheskoy khimii AN SSSR. Predstavleno akademikom V.I.Spitsynym.
	(Radioactive substances) (Sulfates)
•	

### "APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00051702

Effect of electrolytes on the absorption of yearly radioactive precipitates of Bassa. (boding Subdiction of A27-429 Ny '64. (kina 1747)

1. Institut fiziology khimit A3 5.7.



\$/844/62/000/000/111/129 D207/D307

AUTHORS: Spitsyn, V. I. and Gromov, V. V.

TITLE: Effect of radiation on sorption properties of barium

sulfate

SOURCE: Trudy II Vsesoyuznogo soveshchaniya po radiatsionnoy khi-

mii. Ed. by L. S. Polak. Moscow, Izd-vo AN SSSR, 1962,

646-650

TEXT: The adsorption of an aqueous solution of methylene blue on precipitated  ${\rm BaSO}_4$  was reduced by activating the sulfate with  ${\rm S}^{35}$  but it rose on adding radium (3.0 x  ${\rm 10}^{-7}$  µc/g) to  ${\rm BaSO}_4$ . The converse was found for the adsorption of an aqueous solution of acid orange on  ${\rm BaSO}_4$ : radium strongly reduced the adsorption while the activation with  ${\rm S}^{35}$  increased it. This behavior was due to the positive charging of  ${\rm BaSO}_4$  surface by the B emission of  ${\rm S}^{35}$  and the negative charging by the A emission of radium. The charged surface of

Card 1/2

Effect of radiation ...

3/844/62/000/000/111/129 D207/D307

the sulfate attracted preferentially the dye with the opposite charge (methylene plue and acid orange have oppositely charged dye ions). NaCl added to the dye solutions reduced the difference between the adsorption on activated and unactivated BiSO4. Then the S35-activated BaSO4 was stored for 100 - 200 days, the adsorption of both dyes was not greatly affected because structural changes on the surface occurred immediately after activation; the observed small reduction of the adsorption with time was are to the 'polishing' effect of the B emission acting for a long time. A similar 'polishing' effect was found on irradiation of the unactivated BaSO4 with 800 kee electrons or 1.5 Mev protons, the effect being stronger for lower dose rates. There are 4 figures and 1 table.

ASSOCIATION: Institut fizicheskoy khimii AN SSSR (Institute of Physical Chemistry, AS USSR)

Card 2/2

L 11051-63

ENT(m)/BDS--AFFTC/ASD--DM

ستريح

ACCESSION NR: AP3001183

s/0089/63/014/005/0491/0493

AUTHOR: Gromov, V. V.; Spitsyn, V. I.

TITLE: Study of sorption properties of silica gel irradiated by neutrons

SOURCE: Atomnaya energiya, v. 14, no. 5, 1963, 491-493

TOPIC TAGS: sorption after nuclear radiation, nuclear reactor, calcium ions, silica gel sorption

ABSTRACT: It has been shown in a number of papers, both by these authors as well as by others, that, among other effects, the irradiation of a surface of a solid results in a change of sorption. In particular, the sorption by silica gel irradiated mainly by Gamma rays were studied in recent papers. Both an increase and a decrease of sorption were observed. In the present paper, the change of sorption of silica gel in an aqueous medium was studied after irradiation by both neutrons and Gamma rays in a nuclear reactor. Pure, coarse silica gel was irradiated by the flux of thermal neutrons and gamma rays. The sorption of both calcium ions and of methylene blue was measured. It was found that sorption is lowered after radiation, the more so the longer the irradiation time. The authors attribute this to a partially irreversible dehydration of silica gel. Orig. art. has: 2 figures.

Card 1/2

#### "APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051702

I. 11051-63 ACCESSION NR: AP3001183

ASSOCIATION: none SUBMITTED: 22Jun62

DATE ACQD: 21Jun63

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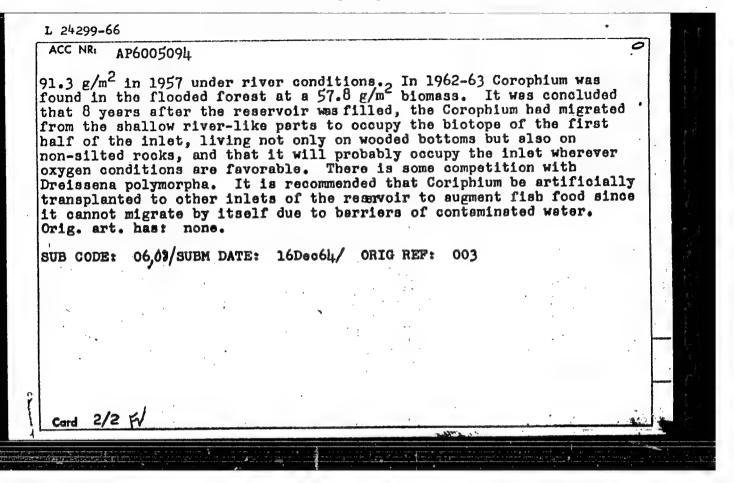
SUB CODE: 00

NO REF SOV: 010

OTHER: 003

kes /C/C Card 2/2

24299-66 ENT(1)/T JK ACC NR: AP6005094 (A) SOURCE CODE: UR/0325/6	55/000/004/0020/0022
THOR: Gromov, V. V.	27
RG: none	B
ITLE: Distribution of the Caspia crayfish Coroplante of the Kama water reservoir	hium in the Sylvenskiy
OURCE: Neuchnyye doklady vysshey shkoly. Biolo	
OPIC TAGS: water pollution, is land with the rest resh water, animal physiology, biologic ecology,	()
BSTRACT: The number and habitat of Corophium cu desirable biomass as food for fish, was determined	rvispinum (Perecaridae), ned since 1956 when Sylverskiy Inlet.
his reservoir was lilled to cover in the condition to parts with river condition to parts with river conditions and the cover is covered. Some of these shallow parts froze over in the covered to the co	ons, shallow with in winter, thus killing
he Corophium which requires depths beyond (20 mg	ttom. Its blomass and



ACC NR: AT7001783 SOURCE CODE: UR/3119/66/000/004/0049/0052

AUTHOR: Gromov, V. V.; Karaseva, L. G.

ORG: Institute of Physical Chemistry AN SSSR (Institut fizicheskoy knimii AN SSSR)

TITLE: Radiation damage in radioactive and gamma-irradiated calcium, strontium, and barium sulfate

SOURCE: AN LatSSR. Institut fiziki. Radiatsionnaya fizika, no. 4, 1966. Ionnyye kristally (Ionic crystals), 49-52

TOPIC TAGS: calcium sulfate, strontium compound, barium compound, sulfate, radiation damage, radioactivity effect, gamma radiation, beta radiation, electron paramagnetic resonance, paramagnetic susceptibility

ABSTRACT: The authors used electron paramagentic resonance to study the transformations occurring in a crystal lattice of rare-earth sulfates under the influence of beta radiation from S<sup>35</sup> introduced into these compounds. In addition, they investigated nonradioactive samples of the same salts irradiated with gamma rays from Ca<sup>60</sup>. The procedure for preparing powders of the radioactive salts was described earlier (DAN SSSR, v. 149, 626, 1963). The tests consisted essentially of determining the accumulation of paramagnetic centers in the radioactive sulfates, determining the concentration of the paramagnetic centers as a function of the specific radioactivity,

Card 1/2

#### ACC NR: AT7001783

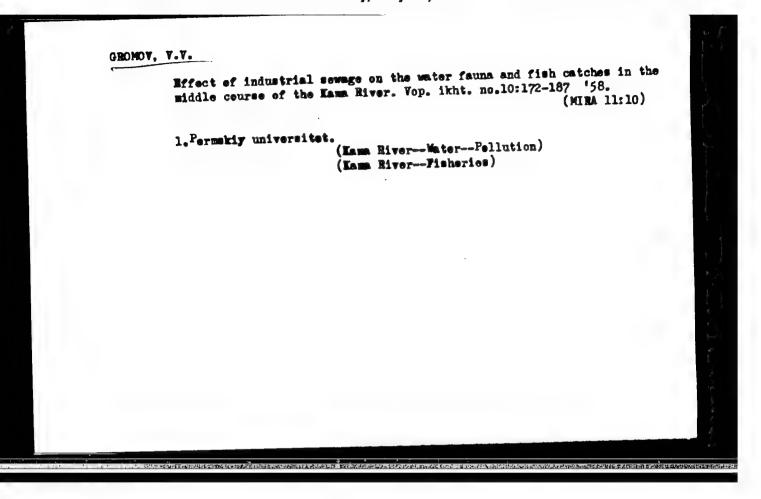
and measuring the annealing of the paramagnetic centers in the irradiated sulfates. The results show that the higher the level of the specific radioactivity of the salt, the more rapidly equilibrium is attained in the formation of the paramagnetic centers. The paramagnetic-center concentration increases with radioactivity but eventually attains saturation. It is concluded from the results that irradiation produces in the investigated salts localized unpaired electrons, which remain stable up to certain temperatures. The most stable EPR signal is found to be due to the radical SO<sub>3</sub>. The asymmetry of the observed EPR line is attributed to the radical SO<sub>4</sub>, which has a three-axis anisotropy of paramagnetic susceptibility. Orig. art. has: 3 figures.

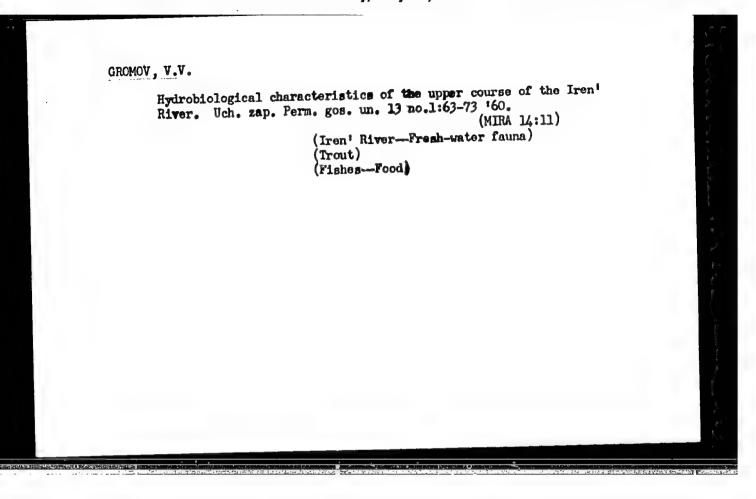
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Card 2/2

Modern changes in the distribution of Caspian forms in the Kama River.[with English summary in insert]. Zool.zhur.35 no.11:1608-1616 D '56. (MIRA 10:1)

1.Molotovskiy gosudarstvennyy universitet.
(Kama River--Fresh-water fauna)





The fauna of aquatic organisms occurring on submerged wood in the Sylva Ray of Kama Reservoir. Zool. zhur. 40 no.3:309-317 Mr '61.

1. State University of Perm.
(Kama Reservoir—Chironomidae)

# "APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051702

GROMOV, V.V.

Aquatic organisms occurring on decaying wood in Kama Reservoir (exemplified by the Syra River Estuary). Dokl. AN SSSR 142 no.3: (MIRA 15:1)

1. Permskiy gosudarstvennyy universitet im. A.M.Gor'kogo. Fredstavleno akadenikom Ye.N.Pavlovskim. (Kama Reservoir--Fresh-water fauna)

JD/HW/GO EWT(m)/EPF(c)/EWP(1)/EPF(n)-2/T/EWP(t)/EWP(b) Pr-li/Pu-li L 54700-65 S/0020/65/160/005/1111/1113 4/8 ACCESSION NR: AP5007570 AUTHOR: Gromov, V. V.; Kapshaninov, Yu. I. TITLE: Preparation of highly dispersed electrolytic platings of crystalline cerium oxide under irradiation 19 Doklady, v. 160, no. 5, 1965, 1111-1113 SOURCE: AN SSSR. TOPIC TAGS: crystalline cerium oxide plating, cerium oxide plating, cerium oxide, irradiation, highly dispersed plating ABSTRACT: The effect of ionizing radiation on the degree of dispersion of electrolytic crystalline platings of cerium oxide on stainless steel was studied. The experimental set-up contained a 1.5 cm<sup>2</sup> Pt-anode rotating at about 120 rpm, a 2 cm<sup>2</sup> stainless steel cathode, and an LP-5 glass electrode for pH recording. In each experiment a 50 ml solution of CeCl<sub>3</sub> was used containing 0.02 mg of Ce<sup>3</sup>/ml. The following conditions were also constant: electrolysis duration 1 hour, current density 70 ma/cm<sup>2</sup>, voltage 12V, pH 2.5, and temperature 55°C. In all cases 0.8 ± 0.05 mg or 80 \* 5% of Ce<sup>3†</sup> ions contained in the electrolyte was deposited on the stain-less steel cathode. In one series of experiments Ce<sup>144</sup> isotope (0.2, 2.0 and 20.0 Card 1/3

1700-65 SSION NR: AP5007570 millicuries) was used as an internal source of ionizing radiation while in another series an external ionizing radiation was derived from a Co<sup>60</sup> source (40,000 geqv of Ra). Examination of the platings with an MIM-7 microscope (400 magnification) showed that in both series of experiments an identical dispersion of cerium oxide was reached at a given level of radiation absorption  $(1\cdot10^{13}, 2\cdot10^{14}, \text{ and } 2\cdot10^{15} \text{ eV/ml})$ . Ionizing irradiation of platinum and stainless steel with  $\text{Co}^{60}$  results in increased adsorptive capacities of these metals. For a given radiation absorption level, cerium oxide platings with slightly greater crystallite dispersion resulted from using Ce<sup>144</sup> isotope than from the Co<sup>50</sup> irradiation. Function of ionizing radiation is traced to radiolysis of the electrolyte water into H and OH radicals which then interact with the cathode in such a fashion as to cause increased adsorption ability of the cathode surface. The paper was presented to Academician V. I. Spitsyn on July 19, 1964. "In conclusion, we thank A. T. Vagramyan for discussing the results of the work." Orig. art. has: 1 table and 3 figures. ASSOCIATION: Institut fizicheskoy khimii Akademii nauk SSSR (Institute of Physical Chemistry, Academy of Sciences, SSSR) Card 2/3

# "APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051702

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193/GG Pi-4 IJP(c) ENT(1)/EPF(c)/EEC(t) L 55917-65 UR/0020/64/159/001/0178/018i ACCESSION NR: AP5018336 AUTHOR: Spitsyn, Vikt. I. (Academician); Gromov, V. V.; Karaseva, L. G. ઢ TITLE: Investigation of the electron paramagentic resonance spectra of radioactive and irradiate samples of calcium, strontium, and barium sulfates SOURCE: AN SSSR. Doklady, v. 159, no. 1, 1964, 178-181 TOPIC TAGS: electron paramagnetic resonance, inorganic salt, crystal structure, sulfate ABSTRACT: The method of electron paramagnetic resonance was used to study the transformation that occur in the crystal lattice of sulfides of the alkaline earth elements under the influence of the beta radiation of S35, introduced into these preparations. The irradiation of nonradioactive samples of the same salts on a Cood gamma setup was conducted for comparison. The comparison of the electron paramagnetic resonance spectra of radioactive and irradiated samples of calcium, strontium, and barium suifates showed that the nature of certain paramagnetic centers (A,B) is the same in both cases. In Card 1/2

L 55917-65 ACCESSION NR: AP5018336 contrast to the radioactive preparations, the spectra of the gamma-irradiated sulfates consist of a large number of paramagnetic centers differing in character, since the absorbed dose was twice as high as in the radioactive preparations. A comparison of the yields of paramagnetic centers of the three substances showed that CaSO4 . 2H2O possesses the greatest radiation stability, and SrCO4 the least. This finding correlates with the corresponding pattern found for the hearts of formation of these compounds: CaSO4 . H2O > BaSO478rSO4. Orig. art. has: 4 figures, 1 table. ASSOCIATION: Institut fizicheskoy khimii Akademii nauk SSSR (Institute of Physical Chemistry, Academy of Sciences SSSR) ENGL: 00 SUB CODE: NP. IC SUBMITTED: 26May64 OTHER: NR REF SOV:

## "APPROVED FOR RELEASE: Thursday, July 27, 2000

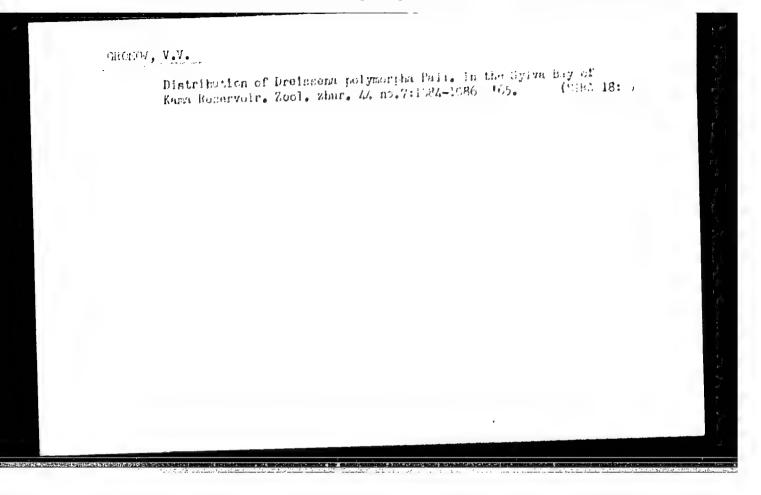
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CROMOV, V.V.

Distribution of the Caspian emistacean Corophics in the Sylva Bay of Kama Reservoir, Nauch, dokl, vys, shkely; biol, nauki no.4:20-22 (MIRA 18:10)

1. B.komeniczana łafedrcy zcolegii bergoszenosinykh Parmskeg, gesudarstvennego universiteta im. A.M.Sorikoso.

## "APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051702



### "APPROVED FOR RELEASE: Thursday, July 27, 2000

#### CIA-RDP86-00513R00051702

SOURCE CODE: UR/0153/65/008/005/0834/0839 ACC NR. AP6002210 (A) AUTHOR: Gromov, V. V.; Gavurina, R. K. CRG: Department of Plastic Technology, Leningrad Technological Institute im. Lonsovet (Kafedra tekhnologii plastmass Leningradskogo tekhnologicheskogo instituta) TITLE: Epoxy resins from N,N'-dialkyl substituted derivatives of 4,4'-diaminodiphenylmethane SOURCE: IVUZ. Khimiya i khimicheekaya tekhnologiya, v. 8, no. 5, 1965, 834-839 TOPIC TAGS: epoxy plastic, nitrogen compound, organic synthetic process, resin, diphenyl compound, methane, chlorohydrin ABSTRACT: Using N,N'-dimethyl-, N,N'-diethyl-, and N,N'-disopropyl-4,4'-diaminodiphenylmethane and epichlorohydrin as the starting materials, the epoxy resins containing nitrogen were synthesized, while studying the conditions of each stage of the synthesis. The condensation reaction of N,N'-dialkyldiamines with epichlorohydrin was performed in two stages (1. formation of chlorohydrin, 2. dehydrochlorination by alkali at room temperature) and gave a product of the structure: The average magnitude of the degree of condensation (n) depended on the ratio of the UDC: 678-65 Card 1/2

L 39477-66

ACC NR: AF6002210

starting materials. At constant reaction conditions, the concentration of epoxy groups in the final products decreased with the increasing length of the alkyl substituents. In the first stage of the synthesis, the nature of the solvent affected the rate of the reaction. At 75-950 the rate decreased with the solvents: iscamyl alcohol> isopropyl alcohol benzene isopropyl alcohol benzene. Use of a benzene-isopropylalcohol mixture as the solvent in the second stage of the reaction made possible a replacement of a 44% solution by the solid NaCH. The dehydrochlorination reaction was practically accomplished within 3-4 hours. Curing with maleic anhydride (5 hours at 600) or 4,41-diaminodiphenylmethane gave resins of approximately similar properties. Experimental procedure: one moleof diamine dissolved in 300 ml C6H6 was heated for 15 minutes at 85C and then a known amount of epichlorohydrin was added slowly (15 minutes) by drops to the solution; this was mixed at 850 for 15 hours. The clear light-brown solution of dichlorohydrin formed was cooled to 200, 2.4 M 44% NaCH solution was added gradually for each mole of the diamine, and this was mixed for 15 hours at 20-25C. The NaMl formed was removed and the reaction mixture was washed with H2O to a negative Cl reaction and a weak alkalinity of the wash water (pH 7.8 - 8.5). After distillation of the solvent (C6H6), epichlorohydrin, and residues of H2O, the resin formed was dried in a vacuum at 36 - 40C. Using C6H6+isopropyl alcohol mixture as the solvent, the reaction was performed analogously with a reduction of the time of the dehydrochlorination with solid NaCH to 5 - 6 hours . Orig. art. has: 3 figs., 1 formula and 5 tables.

SUB CODE: 20,07/ SUBM DATE: 18Ju164/ ORIG REF: 010/ OTH REF: 010

Card 2/2/MLF

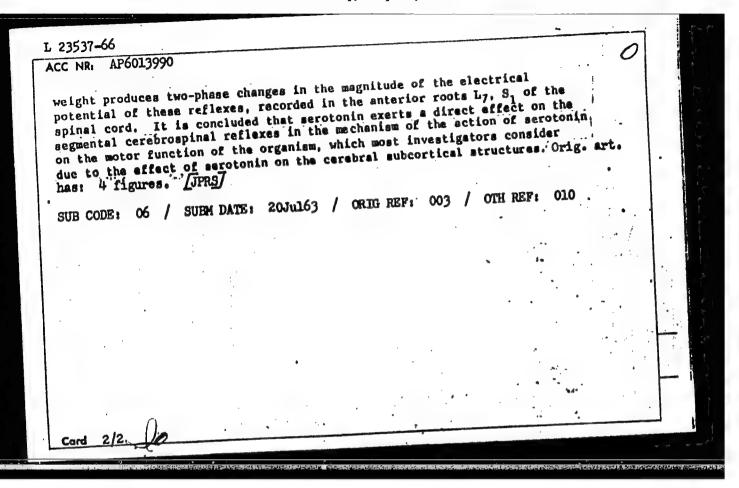
GRONOU, Te.A.; KAMIVEKAYA, T.M., red.; PONOMARNYA, A.A., tekhn.red.;
GREADINOVA, Ye.S., tekhn.red.

[Geel in the fuel economy of the United States] Ugol' v
toplivnom khosiaistve SShA. Noskva, Gosplanizdat, 1958.

(Willa 12:7)

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SOURCE CODE: UR/0216/65/000/001/0103/0107 T. 23537-66 ACC NR: AP6013990 /6 AUTHOR: Gromova, Ye. A .- Gromova, E. A.; Skuratova, S. A. ORG: Institute of Normal and Pathological Physiology, AMN SSSR, Moscow (Institut normal'noy i patologicheskoy fizilogii AMN SSSR) TITLE: Physiological analysis of the effect of serotonin on the motor function of man SOURCE: AN SSSR. Izvestiya. Seriya biologicheskaya, no. 1, 1965, 103-107 TOPIC TAGS: serotonin, biologic metabolism, electrophysiology, cat ABSTRACT: The investigation of the mechanism of action of serotonin on the . motor function or the organism is of major interest in view of the existence of experimental findings on its antispasmodic effect (Scarinci, 1955; Cahn et al., 1958; Laborit et al., 1958 and others) These findings have led to the theory that disturbances in the normal metabolism of serotonin may be a definite factor in the genesis of convulsive seizures. The authors experimentally verified this plausible theory by performing an electrophysiological analysis of the effect of serotonin on cerebrospinal reflex activity. Thus, mono- and polysynaptic reflexes of the spinal cord on stimulation of the muscular and cutaneous nerves of the hind legs were tested in experiments on 62 cats with sectioned spinal cord. It is shown that the intravenous and intraarterial administration of serotonin in doses of 10-150 g per kg body UDC: 591.18 Card 1/2



GRANCY, Ye. I.

"Studying the Process of Ammonia Absorption From Coke Cven Gas With Sulfuric Acid Solutions to Improve Industrial Methods of Preparing American Sulfate." Cand Chem Sci, Ukrainian Sci-Res Coal Chemistry Inst, Glavkoks, Ministry of Local Industry; Khar'kov Sci-Res Inst of Coal Chemistry, Khar'kov, 1954. (RZhKhim, No 21, Nov 54)

Survey of Scientific and Technical Dissertations Defended by USSA Higher Educational Institutions (11)

SO: Sun. No. 521, 2 Jun 55

BRODOVICH, A.I., dekter tekhnicheskikh nauk; GROMOV, Ye,I., kandidat tekhnicheskikh nauk.

Investigation of asbestes-winyl as a protective coating for equipment of by-product coke plants. Koks i khim.no.2:47-50 '56. (MLRA 9:7)

l. Ukrainskiy uglekhimicheskiy institut. (Pretective coatings) (Ceke industry--Equipment and suplies)

## "APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051702

Methods for protecting cross tie rods in coke ovens. Koks i khim.

(MIRA 15:1)

1. Ukrainskiy uglckhimicheskiy institut.

(Coke ovens)

s/068/62/000/003/003/003 E071/E435

AUTHORS:

Gromov, Ye.I., Cherkashin, V.N.

TITLE:

Corrosion resistance of materials in technological media involved in the production of indine-coumarone

resins

PERIODICAL: Koks i khimiya, no.3, 1962. 47-48

The results are given of an investigation of resistance to corrosion of various steels and corrosion resistant materials in the media of the plant for washing and neutralization of polymerized indine-coumarone resins (A1Cl3 used as a catalyst) in the evaporator and condenser. Specimens investigated were placed in a special cage made of a fluoride plastic which was fitted in to the were expressed in loss of weight  $(g/m^2)$  of surface per hour). is concluded that the body of the washing apparatus should be made from mild steel, protected by diabase plate lining, the joints of which should be filled with a paste Armasite-2 (resistant to acid and alkali); the protection of the cover and manholes can be achieved with ATM-1 plates, faolite or bakelite lacquer. evaporator can be made from steel X18M12M37 (Kh18N12M3T), tubes Card 1/2